



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
16 STATE HOUSE STATION  
AUGUSTA, MAINE  
04333-0016

JOHN ELIAS BALDACCI  
GOVERNOR

DAVID A. COLE  
COMMISSIONER

December 8, 2003  
Subject: Lincoln Plantation  
Project No.DISC-1018(700)X  
PIN 10187.00  
Bid Amendment No. 2

Dear Sir/Ms.:

Please make the following changes to your Bid Package:

Delete the "Schedule of Items" dated 031202, three pages, and replace it with the attached "Schedule of items" dated 031205, three pages.

Delete Special Provision Section 202.101 "Remove and Reset Existing Superstructure Members" dated 11/25/2003 one page, and replace it with the attached one page, entitled Special Provision Section 202.1291 "Remove and Reset Existing Superstructure Members", dated 12/4/2003.

Delete Special Provision Section 524 "Temporary Structural Support" dated 09/02/2003, one page.

Delete Special Provision Section 525 "Granite Masonry (Stone Masonry Wall)" one page, dated 09/03/2003, and replace with the attached Special Provision Section 525 "Granite Masonry (Stone Masonry Wall)" one page, dated 12/08/2003.

Delete Special Provision Section 528 "Structural Timber", five pages, dated 12/01/2003, and replace it with the attached Special Provision Section 528 "Structural Timber", five pages, dated 12/4/2003.

Make the following changes to the Plan sheets:

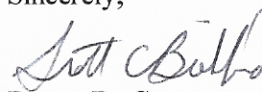
Delete Plan sheet 2 of 8 entitled "Quantities and Notes", one page, dated 12/02/03, and replace it with the new Plan sheet 2 of 8 entitled "Quantities and Notes" one page, dated 12/05/03.

On Plan Sheet number 4 of 8 entitled "Bridge Sections" where it states "Detail I" add "If tension braces interfere with installation of the new knee braces as shown, the contractor shall submit an alternate replacement scheme for approval by the resident. Knee brace replacement shall be consistent throughout the bridge".

Make this change in pen and ink.

Consider these changes prior to submitting your bid on December 10, 2003.

Sincerely,

  
for Bruce R. Carter  
Contracts Engineer



PRINTED ON RECYCLED PAPER

## SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 010187.00

PROJECT(S): DISC-1018(700)X

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
SECTION 0001 BRIDGE ITEMS						
0010	202.10 REMOVING EXISTING SUPERSTRUCTURE (PROPERTY OF CONTRACTOR)	LUMP	LUMP			
0020	202.1291 REMOVE AND REINSTALL SIDING AND FLOORING	BF6856.000				
0030	203.20 COMMON EXCAVATION	CY75.000				
0040	524.30 TEMPORARY STRUCTURAL SUPPORT	EA1.000				
0050	525.331 ADDITIONAL STONES FOR MASONRY WALL	CY23.000				
0060	528.011 STRUCT TIMBER FAB AND DEL SIDING, STRAPPING, KNEEBRACES, COMP BRACES, BEARING BLOCKS/BACKWALLS, FLOOR BEAMS AND FLOORING	BF2407.000				
0070	528.012 STRUCTURAL TIMBER FABRICATION AND DELIVERY POSTS, TENSION BRACES AND CHORDS	BF1169.000				
0080	528.021 STRUCTURAL TIMBER ERECTION STRAPPING, KNEE BRACES, COMPRESSION BRACES, BEARING BLOCKS/BACKWALLS AND FLOOR BEAMS	BF1837.000				

## SCHEDULE OF ITEMS

DATE: 031205

REVISED:

CONTRACT ID: 010187.00

PROJECT(S): DISC-1018(700)X

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0090	528.022 STRUCTURAL TIMBER ERECTION POSTS, TENSION BRACES AND CHORDS	1169.000 BF				
0100	528.494 STRUCTURAL TIMBER FIRE RETARDANT PAINT	LUMP	LUMP			
0110	528.90 TIMBER GUARD RAIL	106.000 LF				
0120	610.18 STONE DITCH PROTECTION	5.000 CY				
0130	615.07 LOAM	10.000 CY				
0140	618.14 SEEDING METHOD NUMBER 2	1.000 UN				
0150	619.12 MULCH	1.000 UN				
0160	652.31 TYPE I BARRICADE	4.000 EA				
0170	652.34 CONE	6.000 EA				
0180	652.35 CONSTRUCTION SIGNS	65.000 SF				

## MAINE DEPARTMENT OF TRANSPORTATION

PAGE: 3

DATE: 031205

## SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 010187.00

PROJECT(S): DISC-1018(700)X

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0190	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP	LUMP			
0200	659.10 MOBILIZATION	LUMP	LUMP			
0210	841.48 BOLLARDS	8.000				
		EA				
	SECTION 0001 TOTAL					
	TOTAL BID					

**SPECIAL PROVISION**  
**SECTION 202.1291**  
**REMOVE AND RESET EXISTING**  
**SUPERSTRUCTURE MEMBERS**

**202.1291 Description** This work shall consist of removing, numbering, storing and resetting existing and new siding and flooring.

Each length of siding shall be reinstalled on the structure in its original location. Where the original siding is missing, or the original siding is damaged or deteriorated beyond use, new siding is to be substituted.

Both layers of the existing floor shall be removed, stored and relaid in one layer. The Contractor shall use undamaged original planks, in the longest lengths possible, to construct the new one layer floor. If there are insufficient undamaged original planks available, the contractor shall supply suitable new lumber to complete the floor.

Bolts, nails, spikes and other required fasteners or connectors shall be included as incidental to the Work.

**Method of Measurement** Structural timber and lumber will be measured by the board foot complete and accepted, consisting of all timber and related materials in the fabricated and erected structure as shown in Plans. Related materials shall include, but not necessarily be limited to connectors and miscellaneous hardware.

**Basis of Payment** Structural timber and lumber will be paid for at the contract board foot price for the respective contract items involved. Price shall be full compensation for removing, storing and reinstalling existing and new siding and flooring including all hardware and the furnishing of all labor, tools, equipment and incidentals necessary to complete the work. Fire retardant treatment will be paid for separately.

Payment will be made under:

Pay Item	Pay Unit
202.1291 Removal and resetting of siding and flooring	BF

**SPECIAL PROVISION**  
**SECTION 525**  
**GRANITE MASONRY**  
**(STONE MASONRY WALL)**

**Description** This work shall consist of chinking dry laid stone abutments, and placing stone in accordance with the contract plans, specifications and special provisions.

**Construction Requirements** Existing stones shall be used to the extent that they can be retrieved and replaced. Additional stones, matching the texture and color shall be provided as necessary to complete the rebuilding of the abutments including wings. No mortar shall be used.

**Method of Measurement** Chinking and placing stone will be measured by the number of cubic yards complete and in place.

**Basis of Payment** Granite masonry will be paid for at the contract unit price for the respective contract item involved. The price shall be full compensation for furnishing transporting, removing and resetting of stones including all materials, labor and incidentals necessary to complete the work.

Payment will be made under:

Pay Item:

Pay Unit:

525.331 Additional Stones for Masonry Wall

Cubic Yard

**SPECIAL PROVISION**  
**SECTION 528**  
**STRUCTURAL TIMBER**

GENERAL

**528.011 Description** This work shall consist of detailing, furnishing, fabricating, and transporting structural timber for use in constructing: siding, strapping, knee braces, compression braces, bearing blocks/backwalls, floor beams and flooring.

Bolts, nails, spikes, and other required fasteners or connectors shall be included as incidental to the Work.

**Basis of Payment** Structural timber and lumber will be paid for at the contract board foot price for the respective contract item. Price shall be full compensation for detailing, furnishing, transporting, and handling the material specified including all hardware and the furnishing of all labor, tools, equipment and incidentals necessary to complete the work. Fire retardant treatment will be paid for separately.

**528.012 Description** This work shall consist of detailing, furnishing, fabricating and transporting structural timber and lumber for use in constructing: posts, tension braces and chords.

**Basis of Payment** Structural timber and lumber will be paid for at the contract board foot price for the respective contract item. Price shall be full compensation for detailing, furnishing, transporting and handling the material specified including all hardware and the furnishing of all labor, tools, equipment and incidentals necessary to complete the work. Fire retardant treatment will be paid for separately.

**528.02 Materials** Materials shall conform with species and stress-grades specified below and be acceptable to the Resident.

- A. Structural timber shall be graded in accordance with requirements of Wood Products, AASHTO M 168, except as otherwise shown on the Plans or called for in these Special Provisions. Truss bottom chord members graded as beams and stringers shall have grading provisions applied over entire length of piece.
- B. Moisture Content.
  - 1. Maximum moisture content of material entering into a finished structure shall be 20 percent. Maximum moisture content of material at time of fabrication shall be 19 percent.

C. Minimum Stress Requirements

1. Structural timber for all components shall match existing specie, except as otherwise provided below, and shall meet allowable unit stress requirements for “select structural grade” material specified in AASHTO Standard Specifications for Highway Bridges.
2. Dimensional lumber used for siding framing shall match existing specie, Grade No. 1 or better as specified in AASHTO.
3. Boards for siding shall match existing specie, and be selected Grade No. 2 or better dressed one side and two edges. The dressed thickness shall be 7/8”.
4. Timber used for compression member blocks and for knee brace blocks shall be White Oak or Ash.

D. Dimensions.

1. Nominal lumber sizes are sawn sizes before either seasoning or planing. Pieces shall be rough sawn to full nominal dimensions specified with only occasional slight variation permitted. Slight variation permitted. Slight variation is a deviation from line of cut not exceeding 1/8 inch. Emphasis shall be placed on matching the actual dimension of the member being replaced.
2. Dressed lumber sizes are finished planed dimensions of material after seasoning.

E. Material shall be sound and free from any incipient or advanced from of decay. Do not use units of material which are unsound, warped, bowed, twisted, improperly treated, not adequately seasoned, or too small to be fabricated.

F. Miscellaneous Materials.

1. Fabricated materials shall conform to requirements in Contract and specified material requirements of Section 713.
2. Nails and spikes shall be of low to medium carbon steel and shall be of good commercial quality.

G. Certification: Contractor shall certify through suppliers that all component materials, manufacturing operations, and/or finished products conform to all requirements of Maine Department of Transportation



pertinent to project plans, special provisions and specifications for contract item or items indicated.

**528.021 Description** This work shall consist of framing and erecting structural timber and lumber for use in constructing: strapping, knee braces, compression braces, bearing blocks/backwalls, and floor beams.

(Placement of siding and floor planks shall be paid for under Pay Item 202.1291)

**Basis of Payment** Structural timber and lumber will be paid for at the contract board foot price for the respective contract item. Price shall be full compensation for placing or erecting the material specified including all hardware and the furnishing of all labor, tools, equipment and incidentals necessary to complete the work. Fire retardant treatment will be paid for separately.

**528.022 Description** This work shall consist of framing and erecting structural timber and lumber for use in constructing: posts, tension braces and chords.

**Basis of Payment** Structural timber and lumber will be paid for at the contract board foot price for the respective contract items. Price shall be full compensation for placing or erecting the material specified including all hardware and the furnishing of all labor, tools, equipment and incidentals necessary to complete the work. Fire retardant treatment will be paid for separately.

**528.04 General**

- A. Type of construction shall be as shown on Plans. Workmanship and finish shall be equal to best general practice in modern timber fabrication shops.

**528.12 Storage**

- A. Timber and lumber stored on site shall be kept in orderly piles, open stacked and on supports that provide at least 12 inches of ground clearance. For outside storage, ground area in the vicinity of the material shall be cleared of grass, weeds and rubbish. Free circulation of air shall be provided between tiers, courses, and ground.
- B. Untreated timber and lumber shall be stored under cover. Covering shall adequately protect it from direct and blowing rain or snow and yet provide full circulation of air. When authorized by the Resident, treated material may be left uncovered.
- C. Fabricated material shall be stored in a manner that will prevent dimensional changes in member prior to assembly.

**528.13 Workmanship** All framing shall be true and exact. Nails and spikes shall be driven with heads set flush with surface of wood. Wood surfaces shall be free from deep or frequent hammer marks.

**528.14 Handling**

- A. Material shall be carefully handled to avoid damaging edges or surfaces and to keep it clean.
- B. Materials shall be picked up or moved with slings or other devices that will not damage or mar surface. Peavies, cant hooks, timber dogs or other pointed tools will not be permitted.

**528.15 Framing**

- A. Lumber and timber shall be accurately cut and framed to a close fit in such a manner that joints will have full and even bearing over entire contact surface. Mortises shall be true to size for their full depth and tenons shall fit snugly. No shimming will be permitted in making joints, except as noted on the Plans, nor will open joints be accepted.

**528.17 Trusses** Trusses, when completed, shall show no irregularities of line. Chords shall be straight and true from end to end in horizontal projection and, in vertical projection, shall show a smooth curve through panel points. All bearing surfaces shall fit accurately. Uneven or rough cuts at points of bearing shall be cause for rejection of piece containing defect.

**528.18 Siding**

- A. Finished appearance of siding is considered of primary importance and special care shall be taken to secure a high quality of workmanship and finish on this portion of the structure.
- B. Unless otherwise directed by the Resident, the siding shall be built after removal of false work and adjustment of trusses to correct alignment and camber.

**528.19 Decking**

- A. Plank material shall be of the grade specified.
- B. Single layer plank floors consist of a single thickness of planking supported by floor beams. Planks shall be laid heart side down with ½ inch openings between them. Each plank shall be securely spiked to each floor beam. Planks shall be carefully graded as to thickness and so

laid that no two adjacent planks shall vary in thickness by more than 1/16 inch. Unless otherwise specified, lengths of planks shall be minimum of 18 feet with end joints staggered in adjacent planks.

**528.20 Floor Beams** Floor beams shall be sized at bearings and shall be placed in position so that knots near edges will be in the top (compression) portions of the beams.

**528.21 General** Contractor shall erect structural timber and lumber in accordance with Plans and these Specifications. Contractor shall also design, erect, and remove any falsework and do all work required to complete structural timber and lumber work on the bridge as covered by the Contract.

**528.23 Methods and Equipment** Before starting the work of erection, Contractor shall inform Resident fully as to the method of supporting and jacking he proposes to follow, and amount and character of equipment he proposes to use, which shall be subject to review by the Resident. Contractor shall prepare and submit to the Resident, for his review, plans for any falsework and/or for modifications to any existing structure necessitated by construction loading. Falsework and/or modifications shall be properly designed and substantially constructed and maintained for the loads which will be placed upon it. Review by the Resident shall not be considered as relieving Contractor of responsibility for safety of his method or equipment, or from carrying out the Work in full accordance with the Plans and Specifications. No work shall be done until such acceptance by Resident has been obtained.

**528.24 Method of Measurement**

Structural timber and lumber will be measured by the board foot complete and accepted, consisting of all timber and related materials in the fabricated and erected structure as shown in Plans. Related materials shall include, but not necessarily be limited to connectors and miscellaneous hardware.

Payment will be made under:

Pay Item	Pay Unit
528.011 Structural Timber, Fabrication and Delivery, Siding, Strapping, Knee Braces, Compression Braces, Bearing Blocks/Backwalls, Floor Beams and Flooring.	BF
528.012 Structural Timber, Fabrication and Delivery, Posts, Tension Braces and Chords	BF
528.021 Structural Timber, Erection, Strapping, Knee Braces, Compression Braces, Bearing Blocks/Backwalls, and Floor Beams.	BF
528.022 Structural Timber, Erection, Posts, Tension Braces, and Chords	BF

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITIES	UNIT
502.10	Remove existing superstructure elements Property of Contractor		L.S.
502.1201	Remove and extend siding and flooring (1452 BF siding; 5400 BF floor planks)	1	B.F.
503.10	Excavation	4856	C.Y.
		75	C.Y.
504.30	Temporary structural support	1	E.A.
525.331	Additional Nuts for Masonry Wall	23	C.Y.
528.01	Structural Timber Fabrication and Delivery of Siding Strapping, Knee Braces, Compression Braces During Block/Blockwall, Floor Beams and Floor Planks	2407	BF
528.012	Structural Timber Fabrication and Delivery of Posts, Tension Braces and Chords	1169	BF
528.02	Structural Timber Fabrication and Delivery of Posts, Tension Braces and Chords	1837	BF
528.022	Bearing Block/Blockwalls and Floor Beams	1169	BF
528.024	Structural Timber Fire Retardant Paint	1	L.S.
528.90	Timber Guardrail	106	L.F.
610.18	Stone Ditch Provision	5	C.Y.
615.07	Loam	10	C.Y.
618.14	Soiling Method Number 2	1	Unit
619.12	Mulch	1	Unit
622.11	Type I Barricade	4	E.A.
622.11	Construction Signs	65	SF
653.35	Construction Signs	65	SF
656.75	Temporary Soil Erosion and Water Pollution Control	1	L.S.
659.10	Mobilization	1	L.S.
841.48	Bollards	8	E.A.

## GENERAL CONSTRUCTION NOTES

1. The project shall be conducted in accordance with the Secretary of the Interior's Standards for Restoration. [www.doi.gov/nps/nasrest/inter.htm](http://www.doi.gov/nps/nasrest/inter.htm) See Supplemental Specifications
2. The bridge is currently closed to vehicular traffic and will remain closed to vehicular and pedestrian traffic during construction.
3. The Contractor with the Resident shall inspect truss members including bearing/bowtell timbers and shear blocks.
4. All repairs and alterations shall be as per the contract plans and as approved and detailed by the Resident. Inspection of the bridge components shall be conducted to Item 524.30.
5. The existing bridge will be inspected and stored as required, to replace structural timber members, struts, purlins and re-string on as practicable and as approved by the Resident. All temporary jacking shall be done with and re-stringing the bridge shall be included to Item 524.30
6. Scaffolding shall be taken to avoid damage to members that are to remain and to the extent possible, the scaffolding that would result in distortions or misalignment of the truss and its joints.
7. The truss, deck and elements shall be inspected jointly by the Resident and Contractor for deterioration upon uncovering hidden areas.
8. The Contractor shall field verify all dimensions of the existing structure and be prepared to make any adjustments as required to properly fit the rehabilitation work.
9. This work shall also include:
- A. Clearing all dirt and debris on and around all truss members and bracing members.
  - B. Structural timber, as noted on the plans, shall include:
    - a. Truss chord top and bottom (4 Layers 3"x 10" x 320 BF+)
    - b. Truss tension counterbraces (4"x 8"x 15' + 40 BF+)
    - c. Truss compression braces 5"x 15' + 245 BF+)
    - d. Truss knee braces 1 1/2"x 6" + 480 BF+)
    - e. Connection posts (trunked-in-kind)
    - f. Connection plates (trunked-in-kind)
    - g. Floor planks (may vary in width from 6 to 12 inches based on availability) (1 Approx. 5% of Existing 1/2"x 6" @ 270 BF+)
    - h. Truss bearing block/bowtell (12"x 12"x 15' + 720 BF+)
    - i. Truss bearing block/bowtell (12"x 12"x 15' + 300 BF+)
    - j. Truss bearing block/bowtell (12"x 12"x 15' + 240 BF+)
  - C. Bridge string structural (1 1/2" x 24" + 200 BF+)
- These members shall be installed by timber framers experienced in hand joining techniques. Reuse existing floor planks.
- D. Lown, seed and mulch shall be applied as directed by the Resident.
7. The Contractor's primary access to the site shall be Via the Bennett Road.
8. The Contractor shall provide access Via the Little Hole Road (40' FOM) through the Adirondack Campground.
9. All exposed wood surfaces, inside and outside of the bridge with the exception of floor beams, bearing blocks and siding shall be painted with a clear fire retardant paint.
- Fragment for Completion, page Transmittal shall be Incidental to Structural Timber from below worked on.

[illegible]

QUANTITIES AND NOTES

SHEET NUMBER